

## **RAW SEQUENCE LISTING**

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Application Serial Number: 10567876  
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***ENTERED***

<110> APPLICANT: Lovelace Respiratory Research Institute  
    Tesfaigzi, Yohannes  
    Belinsky, Steven A.  
<120> TITLE OF INVENTION: Metalloproteinase Gene Polymorphism in COPD  
<130> FILE REFERENCE: 41543-0302  
<140> CURRENT APPLICATION NUMBER: US/10/567,876  
<141> CURRENT FILING DATE: 2006-02-08  
<150> PRIOR APPLICATION NUMBER: PCT/US04/26035  
<151> PRIOR FILING DATE: 2004-08-11  
<150> PRIOR APPLICATION NUMBER: US 60/494,631  
<151> PRIOR FILING DATE: 2003-08-11  
<160> NUMBER OF SEQ ID NOS: 17  
<170> SOFTWARE: PatentIn version 3.3

<210> SEQ ID NO 1  
<211> LENGTH: 22  
<212> TYPE: DNA  
<213> ORGANISM: Artificial  
<220> FEATURE:  
<223> OTHER INFORMATION: Synthetic Probe for MMP-9 Gln279Arg SNP  
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<223> OTHER INFORMATION: Synthetic Probe for MMP-9 Gln279Arg SNP  
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<210> SEQ ID NO 3  
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<220> FEATURE:  
<223> OTHER INFORMATION: Synthetic Probe for MMP-9 Gln279Arg SNP  
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<210> SEQ ID NO 8  
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<213> ORGANISM: Artificial  
<220> FEATURE:  
<223> OTHER INFORMATION: Synthetic Probe for MMP-9 Gln279Arg SNP  
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<210> SEQ ID NO 9  
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<213> ORGANISM: Homo sapiens  
<220> FEATURE:  
<221> NAME/KEY: MISC\_FEATURE  
<222> LOCATION: (279)..(279)  
<223> OTHER INFORMATION: Xaa is Gln in the common variant and Arg in the rare variant  
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Gly Asp Leu Arg Thr Asn Leu Thr Asp Arg Gln Leu Ala Glu Glu Tyr  
35 40 45  
Leu Tyr Arg Tyr Gly Tyr Thr Arg Val Ala Glu Met Arg Gly Glu Ser  
50 55 60  
Lys Ser Leu Gly Pro Ala Leu Leu Leu Gln Lys Gln Leu Ser Leu  
65 70 75 80  
Pro Glu Thr Gly Glu Leu Asp Ser Ala Thr Leu Lys Ala Met Arg Thr  
85 90 95  
Pro Arg Cys Gly Val Pro Asp Leu Gly Arg Phe Gln Thr Phe Glu Gly  
100 105 110  
Asp Leu Lys Trp His His His Asn Ile Thr Tyr Trp Ile Gln Asn Tyr  
115 120 125  
Ser Glu Asp Leu Pro Arg Ala Val Ile Asp Asp Ala Phe Ala Arg Ala

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Asp	Gly	Tyr	Pro	Phe	Asp	Gly	Lys	Asp	Gly	Leu	Leu	Ala	His	Ala	Phe
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Pro	Pro	Gly	Pro	Gly	Ile	Gln	Gly	Asp	Ala	His	Phe	Asp	Asp	Asp	Glu
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Leu	Trp	Ser	Leu	Gly	Lys	Gly	Val	Val	Val	Pro	Thr	Arg	Phe	Gly	Asn
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Ala	Asp	Gly	Ala	Ala	Cys	His	Phe	Pro	Phe	Ile	Phe	Glu	Gly	Arg	Ser
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Tyr	Ser	Ala	Cys	Thr	Thr	Asp	Gly	Arg	Ser	Asp	Gly	Leu	Pro	Trp	Cys
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Gln	Phe	Pro	Phe	Ile	Phe	Gln	Gly	Gln	Ser	Tyr	Ser	Ala	Cys	Thr	Thr
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Val	Met	Gly	Gly	Asn	Ser	Ala	Gly	Glu	Leu	Cys	Val	Phe	Pro	Phe	Thr
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Phe	Leu	Gly	Lys	Glu	Tyr	Ser	Thr	Cys	Thr	Ser	Glu	Gly	Arg	Gly	Asp
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Gly	Arg	Leu	Trp	Cys	Ala	Thr	Thr	Ser	Asn	Phe	Asp	Ser	Asp	Lys	Lys
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Ala	Leu	Met	Tyr	Pro	Met	Tyr	Arg	Phe	Thr	Glu	Gly	Pro	Pro	Leu	His
						420		425							430
Lys	Asp	Asp	Val	Asn	Gly	Ile	Arg	His	Leu	Tyr	Gly	Pro	Arg	Pro	Glu
						435		440							445
Pro	Glu	Pro	Arg	Pro	Pro	Thr	Thr	Thr	Pro	Gln	Pro	Thr	Ala	Pro	
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Pro	Thr	Ala	Gly	Pro	Ser	Thr	Ala	Thr	Thr	Val	Pro	Leu	Ser	Pro	Val
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Asp	Asp	Ala	Cys	Asn	Val	Asn	Ile	Phe	Asp	Ala	Ile	Ala	Glu	Ile	Gly
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Gly	Arg	Gly	Ser	Arg	Pro	Gln	Gly	Pro	Phe	Leu	Ile	Ala	Asp	Lys	Trp
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Pro	Ala	Leu	Pro	Arg	Lys	Leu	Asp	Ser	Val	Phe	Glu	Glu	Pro	Leu	Ser
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Lys	Lys	Leu	Phe	Phe	Ser	Gly	Arg	Gln	Val	Trp	Val	Tyr	Thr	Gly	
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Ala	Ser	Val	Leu	Gly	Pro	Arg	Arg	Leu	Asp	Lys	Leu	Gly	Leu	Gly	Ala
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Asp	Val	Ala	Gln	Val	Thr	Gly	Ala	Leu	Arg	Ser	Gly	Arg	Gly	Lys	Met
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Leu Leu Phe Ser Gly Arg Arg Leu Trp Arg Phe Asp Val Lys Ala Gln  
625 630 635 640  
Met Val Asp Pro Arg Ser Ala Ser Glu Val Asp Arg Met Phe Pro Gly  
645 650 655  
Val Pro Leu Asp Thr His Asp Val Phe Gln Tyr Arg Glu Lys Ala Tyr  
660 665 670  
Phe Cys Gln Asp Arg Phe Tyr Trp Arg Val Ser Ser Arg Ser Glu Leu  
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<210> SEQ ID NO 10  
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<213> ORGANISM: Homo sapiens  
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<221> NAME/KEY: misc\_feature  
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<223> OTHER INFORMATION: n is a in the common variant and g in the rare variant  
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